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Website: www.cqa-cert.com Report Template Revision Date: 2018-07-06

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TEST REPORT

Report No.: CQASZ20200800797E-01
Applicant: iLUV Creative Technology

Address of Applicant: 2 Harbor Park Drive, Port Washington, NY11050, USA

Equipment Under Test (EUT):

EUT Name: SmartShaker 3

Model No.: SS3
Brand Name: iLUV

FCC ID: ATL-SMARTSHAKER3

Standards: 47 CFR Part 15, Subpart C

Date of Receipt: 2020-08-04

Date of Test: 2020-08-04 to 2020-08-12

Date of Issue: 2020-08-12
Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above

Tested By:

(Martin Lee)

Shlek Luo

(Sheek Luo)

Approved By: (Jack Ai)







1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20200800797E-01	Rev.01	Initial report	2020-08-12





2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



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4 General Information

4.1 Client Information

Applicant:	iLUV Creative Technology
Address of Applicant:	2 Harbor Park Drive, Port Washington, NY11050, USA
Manufacturer:	Wai Hang Electronic Co., Ltd.
Address of Manufacturer:	Room 1807-1808, 18/F., New Trade Plaza, Block B, 6 On Ping Street, Siu Lek Yuen, Shatin, NT., Hong Kong

4.2 General Description of EUT

Product Name:	SmartShaker 3
Model No.:	SS3
Trade Mark:	iLUV
Hardware Version:	REV1.0
Software Version:	1.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.2
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location
Test Software of EUT:	Nordic_radio_test.bsp (manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
EUT Power Supply:	lithium battery: DC 3.7V, 1500mA, Charge by DC 5V



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Operation F	Operation Frequency each of channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz

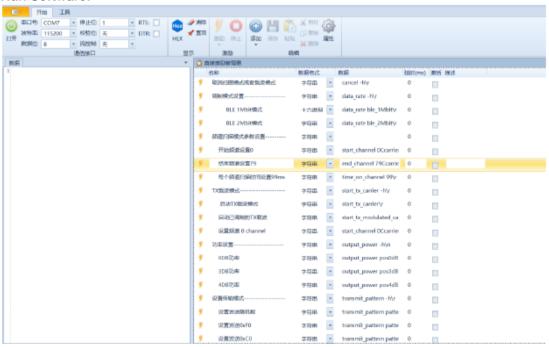


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4.3 Additional Instructions

EUT Test Software Settings:					
Mode:	⊠Special software is used.				
	☐Through engineering command into	3			
	engineering command: *#*#3646633#	*#*			
EUT Power level:	Class2 (Power level is built-in set parameters and cannot be changed and selected)				
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep					
transmitting of the EUT.					
Mode	Channel Frequency(MHz)				
	CH0 2402				
GFSK	CH19 2440				
	CH39	2480			

Run Software:



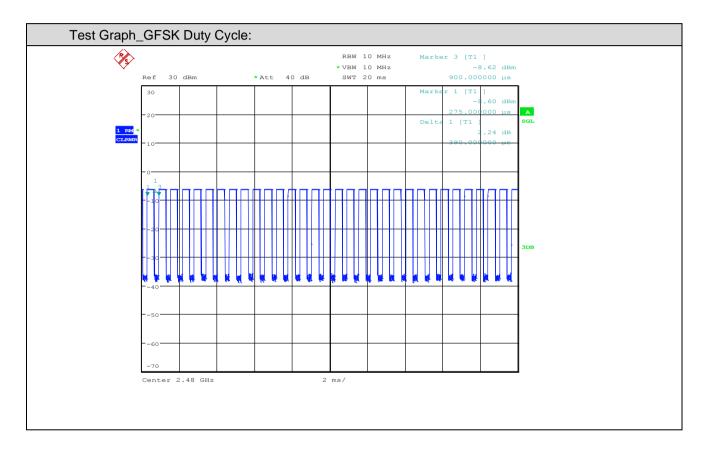


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Operated Mode for Worst Duty Cycle:			
Test Mode Duty Cycle(x) Average correction factor(dB)			
GFSK	62.4%	2.05	

Remark:

- 1) Duty Cycle= On Time/ Period;
- 2) Duty Cycle factor = 10 * log(1/ Duty cycle);







4.4 Test Environment

Operating Environment:	
Radiated Emissions:	
Temperature:	25.4 °C
Humidity:	56 % RH
Atmospheric Pressure:	1009mbar
Conducted Emissions:	
Temperature:	25.6 °C
Humidity:	56 % RH
Atmospheric Pressure:	1009mbar
Radio conducted item to	est (RF Conducted test room):
Temperature:	25.2 °C
Humidity:	60 % RH
Atmospheric Pressure:	1009 mbar
Test mode:	
Transmitting mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
PC	Lenovo	ThinkPad E450c	FCC	CQA
Adapter	HUAWEI	LPL-C010050200Z	FCC	CQA

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	/	/	/





4.6 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** guality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	5.12dB	(1)
2	Radiated Emission (Above 1GHz)	4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	3.34dB	(1)
4	Radio Frequency	3×10 ⁻⁸	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	Frequency Error	5.5 Hz	(1)

⁽¹⁾This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



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4.7 Test Location

Shenzhen Huaxia Testing Technology Co., Ltd,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.8 Test Facility

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.9 Deviation from Standards

None.

4.10Other Information Requested by the Customer

None.





4.11 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver R&S		ESR7	CQA-005	2019/10/25	2020/10/24
Spectrum analyzer	R&S	FSU26	CQA-038	2019/10/25	2020/10/24
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2019/10/25	2020/10/24
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2019/10/21	2020/10/20
Bilog Antenna	R&S	HL562	CQA-011	2019/9/26	2020/9/25
Horn Antenna	R&S	HF906	CQA-012	2019/9/26	2020/9/25
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2019/9/25	2020/9/24
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2019/9/26	2020/9/25
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2019/9/26	2020/9/25
Antenna Connector	CQA	RFC-01	CQA-080	2019/9/26	2020/9/25
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2019/9/26	2020/9/25
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2019/9/26	2020/9/25
EMI Test Receiver	R&S	ESR7	CQA-005	2019/10/25	2020/10/24
LISN	R&S	ENV216	CQA-003	2019/10/23	2020/10/22
Coaxial cable	CQA	N/A	CQA-C009	2019/9/26	2020/9/25
DC power	KEYSIGHT	E3631A	CQA-028	2019/9/26	2020/9/25

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.





5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

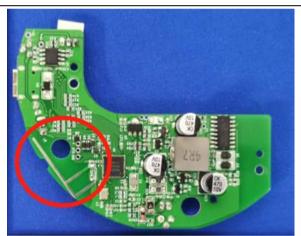
15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is PCB antenna. The best case gain of the antenna is 0dBi.



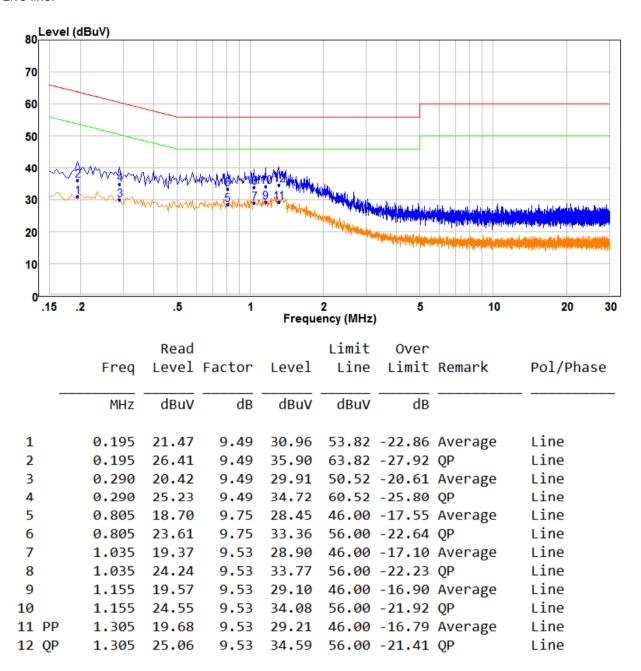


5.2 Conducted Emissions

		ANSI C63.10: 2013			
Limit:	150kHz to 30MHz				
	Limit (c		dBuV)		
	Frequency range (MHz)	Quasi-peak	Average		
	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
*	* Decreases with the logarithm	of the frequency.			
3	 The mains terminal disturbance voltage test was conducted in a shielded room. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between 				
5	the closest points of the LISN 1 and the EUT. All other units of and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of e and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.				
Test Setup:	Shielding Room EUT AC Mains LISN1	AE LISN2 + AC Main Ground Reference Plane	Test Receiver		
Test Mode:	Transmitting with GFSK modu	lation. Charge +Trans	mitting mode.		
Test Results:	Pass				

Measurement Data

Live line:

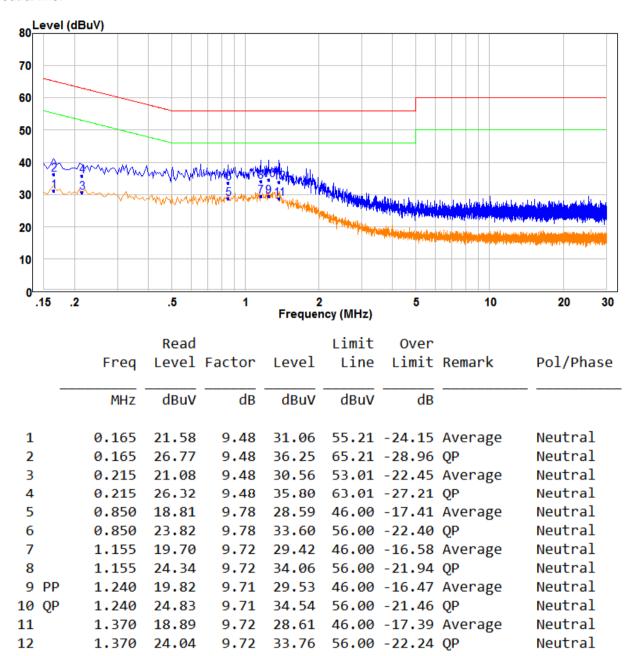


Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



Neutral line:



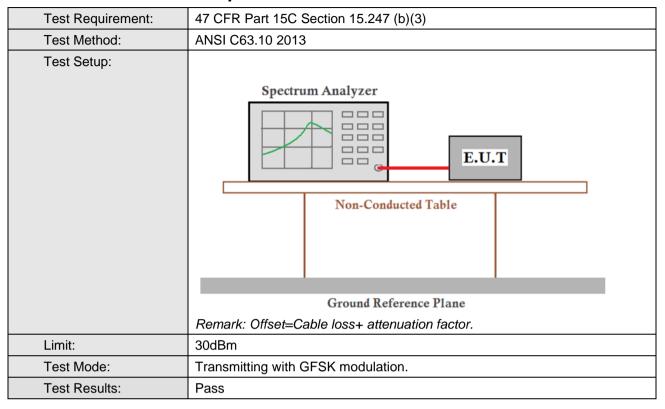
Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.





5.3 Conducted Peak Output Power

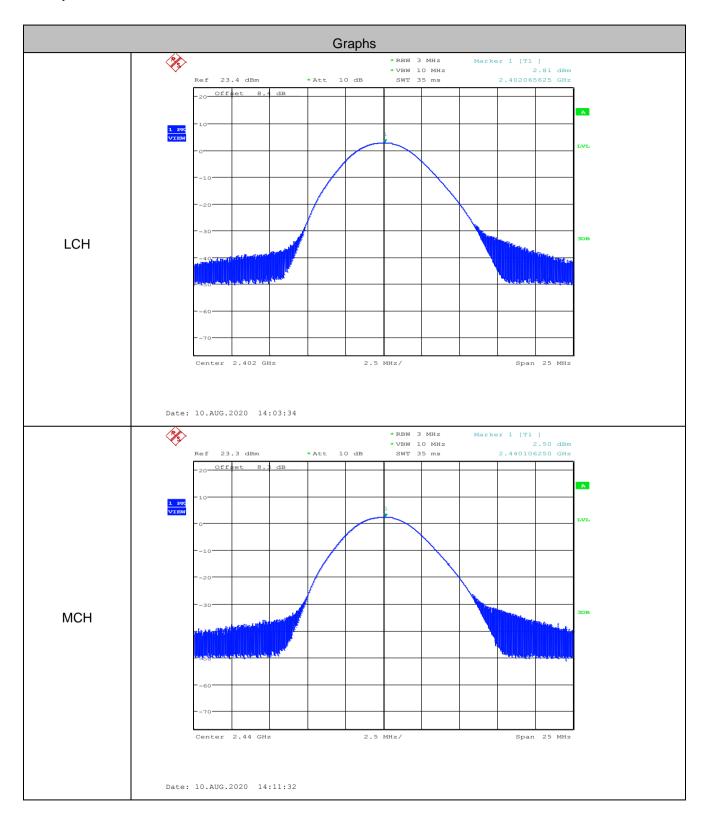


Measurement Data

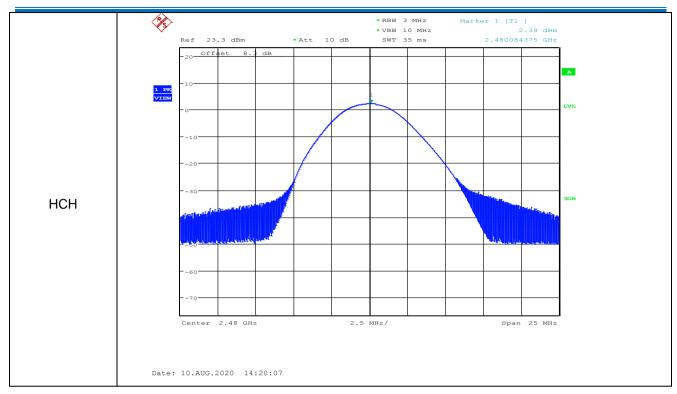
GFSK mode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result	
Lowest	2.81	30.00	Pass	
Middle	2.5	30.00	Pass	
Highest	2.39	30.00	Pass	



Test plot as follows:

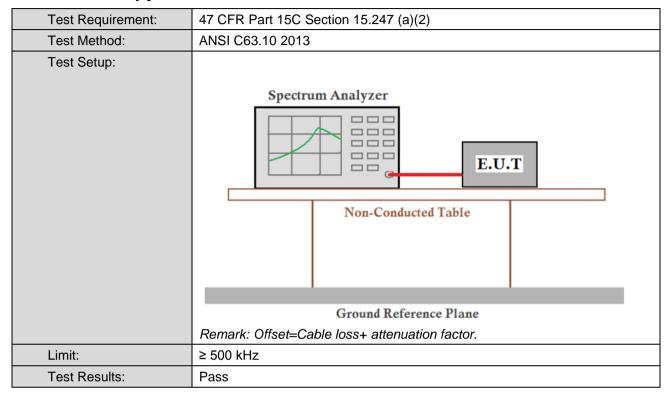








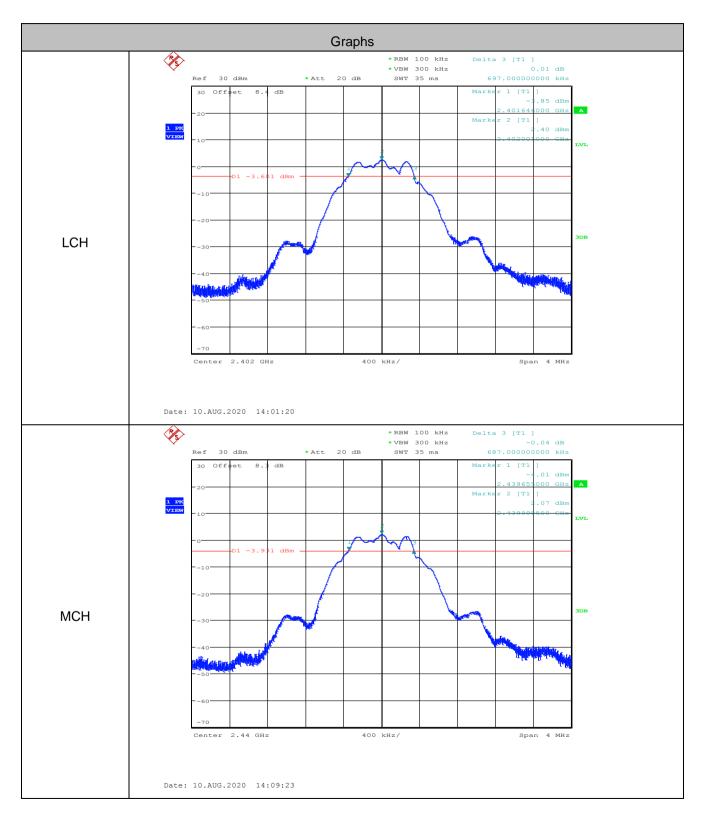
5.4 6dB Occupy Bandwidth



Measurement Data

GFSK mode				
Test channel	6dB Occupy Bandwidth (MHz)	Limit (MHz)	Result	
Lowest	0.697	≥0.5	Pass	
Middle	0.687	≥0.5	Pass	
Highest	0.690	≥0.5	Pass	

Test plot as follows:

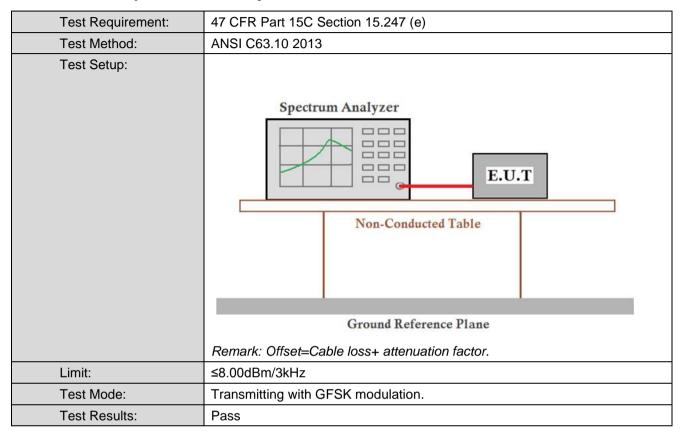








5.5 Power Spectral Density

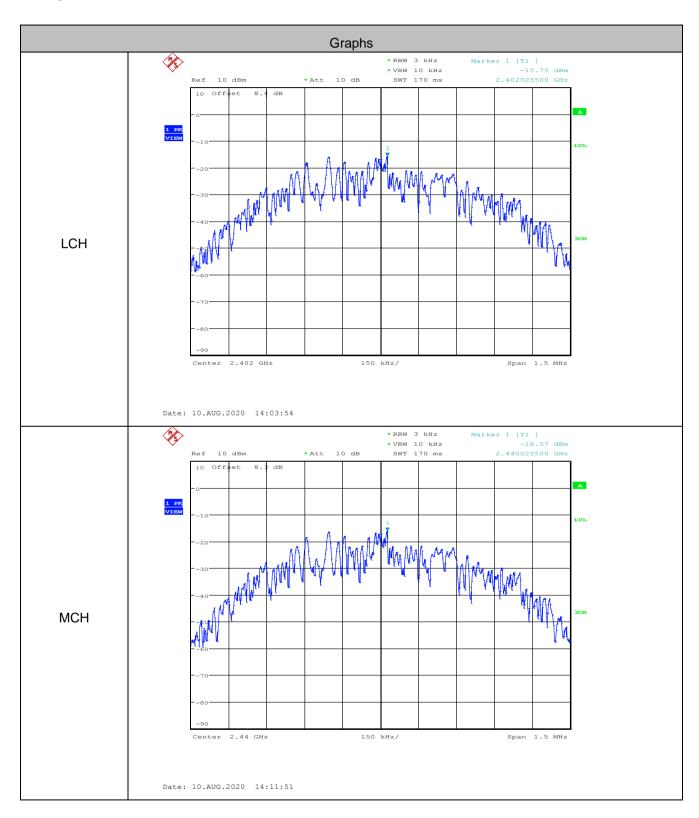


Measurement Data

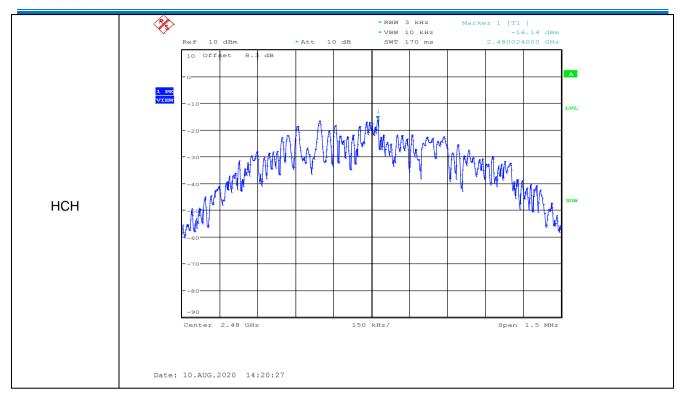
Wedstrement Bata					
	GFSK mode				
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result		
Lowest	-15.750	≤8.00	Pass		
Middle	-16.070	≤8.00	Pass		
Highest	-16.140	≤8.00	Pass		



Test plot as follows:



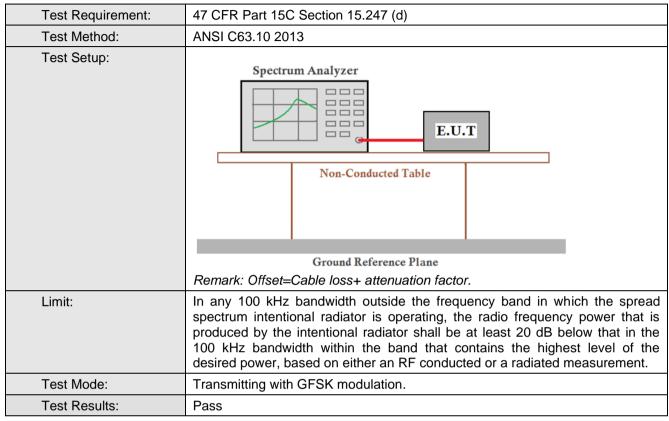








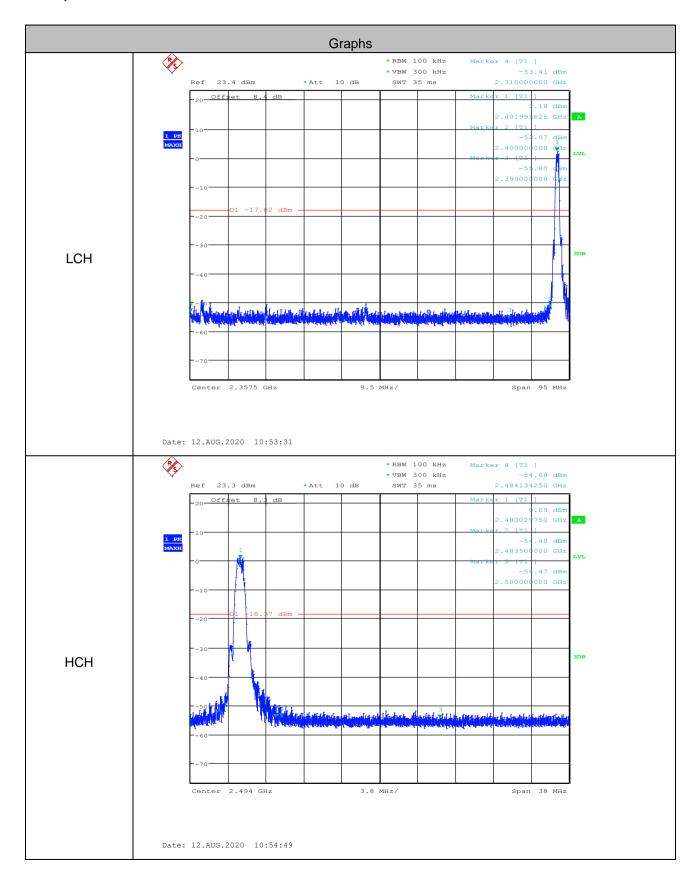
5.6 Band-edge for RF Conducted Emissions



GFSK mode					
Test channel	Frequency(MHz)	Emission Level(dBm)	Limit(dBm)	Result	
Charine	1 requericy(ivii iz)	Lillission Level(ubill)	Limit(abin)	Nesuit	
Lowest	2400	-52.07	-17.82	Pass	
Highest	2483.5	-54.40	-18.37	Pass	



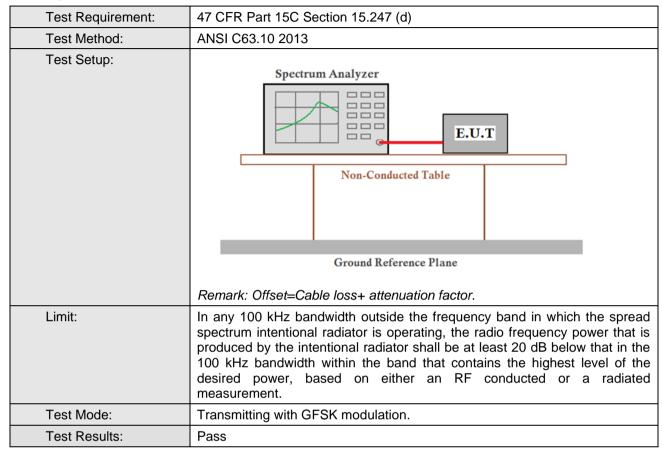
Test plot as follows:



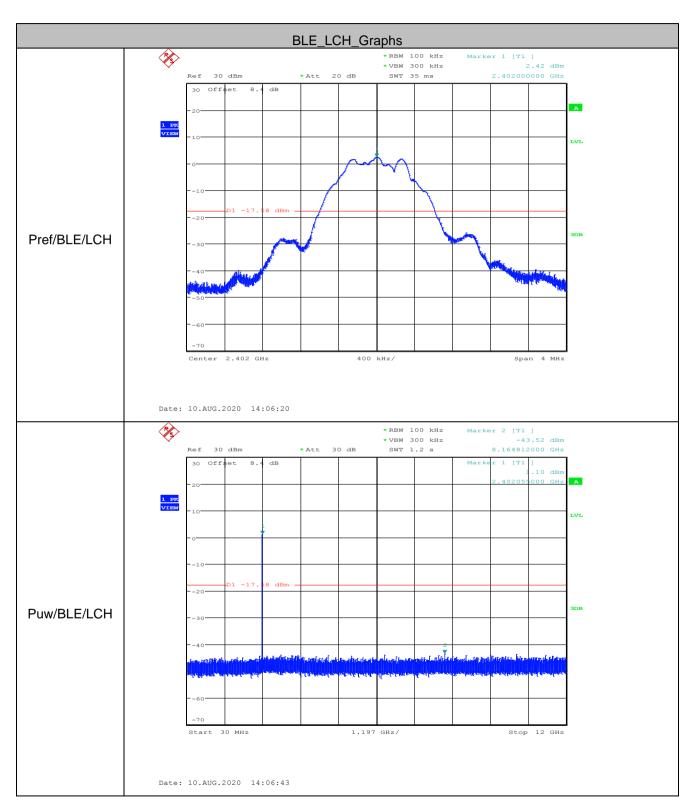




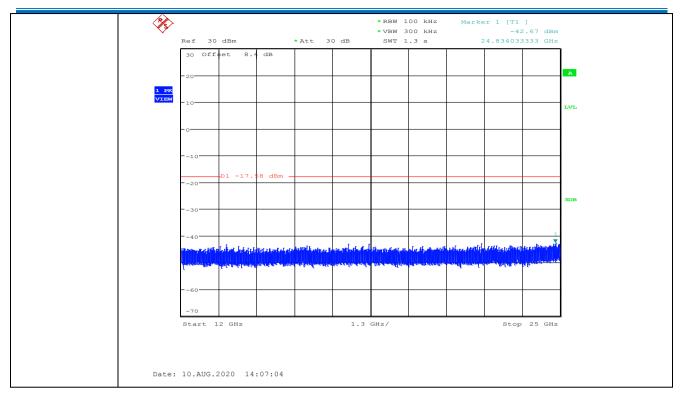
5.7 Spurious RF Conducted Emissions

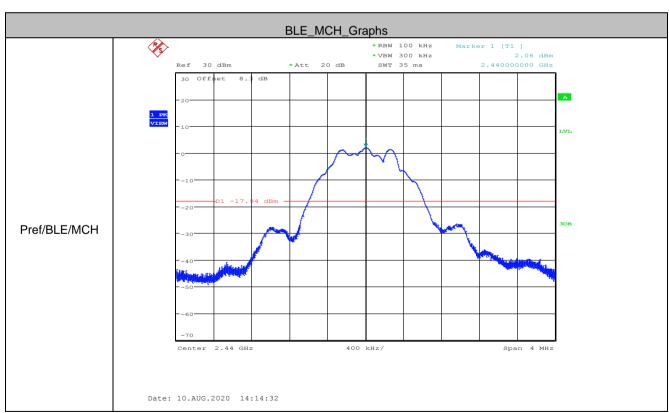


Test plot as follows:

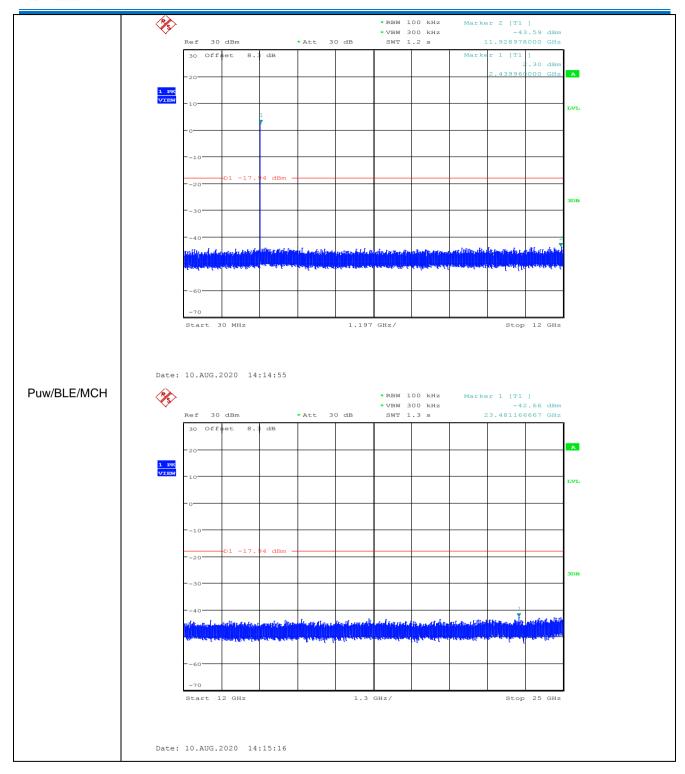


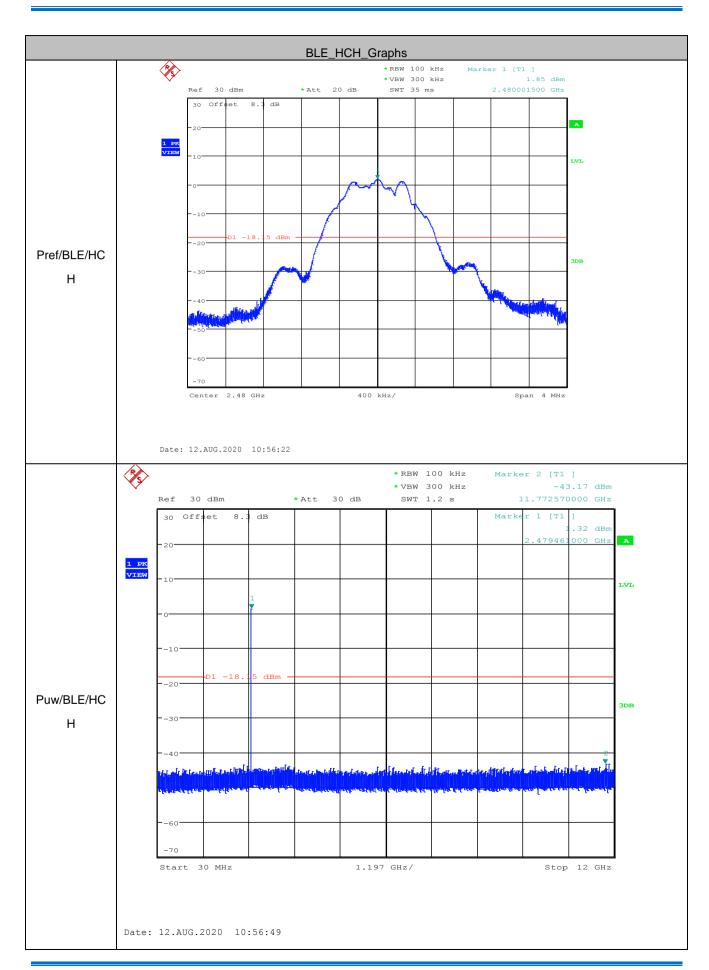






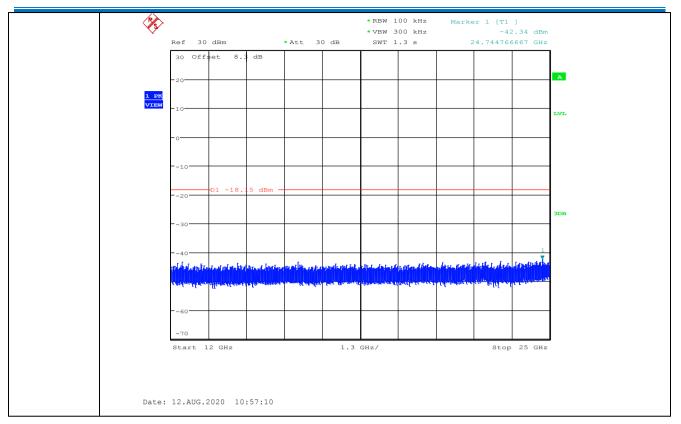








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Remark:

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



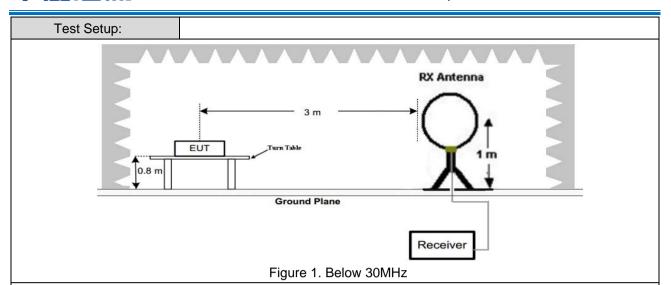


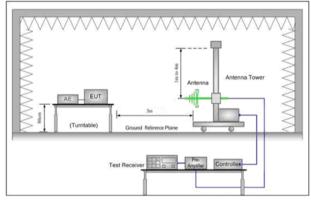
5.8 Radiated Spurious Emission & Restricted bands

5.8.1 Spurious Emiss	ions					
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205					
Test Method:	ANSI C63.10 2013					
Test Site:	Measurement Distance	: 3m	n (Semi-Anecl	hoic Cham	ber)	
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark
	0.009MHz-0.090MH	z	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MH	z	Average	10kHz	30kHz	Average
	0.090MHz-0.110MH	Z	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MH	z	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MH	z	Average	10kHz	30kHz	Average
	0.490MHz -30MHz		Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz		Quasi-peak	100 kH	lz 300kHz	Quasi-peak
	Abovo 1GUz		Peak	1MHz	3MHz	Peak
	Above 1GHz		Peak	1MHz	10Hz	Average
	1): VBW = 10 Hz or 1/T for average levels,					
	Mode		On Time (msec)		1/ T Minimum VBW (kHz)	
	GFSK		0.39		2.56	
Limit:	Frequency Field strength (microvolt/meter) (Limit (dBuV/m)	Remark	Measurement distance (m)	
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	-	30
	1.705MHz-30MHz		30	-	-	30
	30MHz-88MHz		100	40.0	Quasi-peak	3
	88MHz-216MHz	88MHz-216MHz 150		43.5	Quasi-peak	3
	216MHz-960MHz 200		46.0	Quasi-peak	3	
	960MHz-1GHz 500		54.0	Quasi-peak	3	
	Above 1GHz 500		54.0	Average	3	
	Note: 15.35(b), Unless otherwise specified, the limit on peak frequency emissions is 20dB above the maximum permitted average emislimit applicable to the equipment under test. This peak limit applies to the peak emission level radiated by the device.			erage emission		



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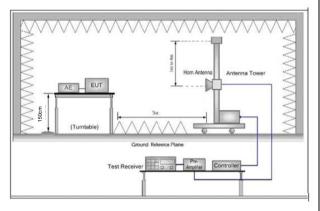


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

Note: For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the

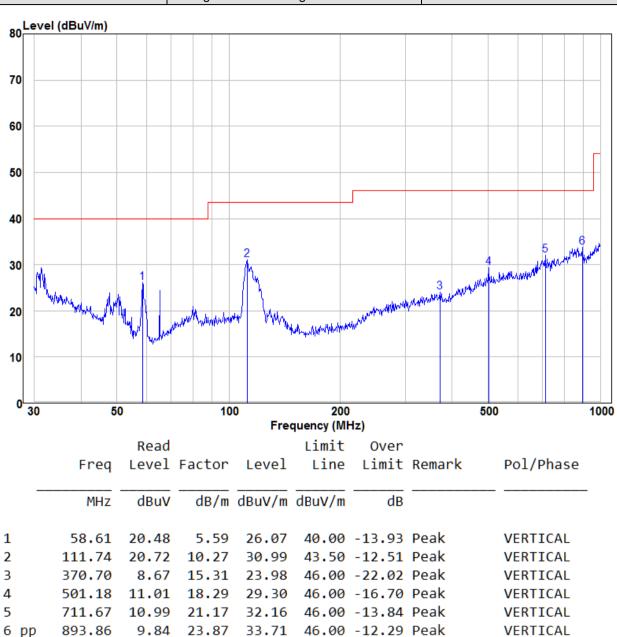


	 measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified
	f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
	g. Test the EUT in the lowest channel (2402MHz),the middle channel (2440MHz),the Highest channel (2480MHz)
	h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
	i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with GFSK modulation. Transmitting mode, Charge + Transmitting mode.
Final Test Mode:	Transmitting with GFSK modulation. Pretest the EUT at Transmitting mode and Charge + Transmitting mode, found the Charge + Transmitting mode which it is worse case. For below 1GHz part, through pre-scan, the worst case is the Middle channel. Only the worst case is recorded in the report.
Test Results:	Pass





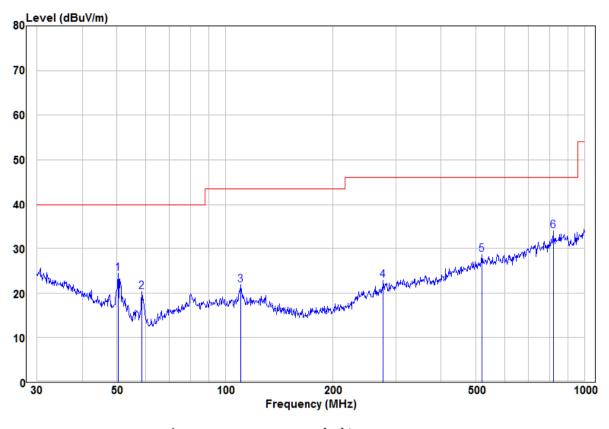
Radiated Emission below 1GHz					
30MHz~1GHz, the worst case					
Test mode: Charge + Transmitting mode Vertical					





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30MHz~1GHz, the worst case					
Test mode:	Charge + Transmitting mode	Horizontal			



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV		dBuV/m				
1	50.41	16.37	8.00	24.37	40.00	-15.63	Peak	HORIZONTAL
2	58.61	14.65	5.59	20.24	40.00	-19.76	Peak	HORIZONTAL
3	110.57	11.65	10.21	21.86	43.50	-21.64	Peak	HORIZONTAL
4	276.12	9.89	12.94	22.83	46.00	-23.17	Peak	HORIZONTAL
5	519.06	10.14	18.48	28.62	46.00	-17.38	Peak	HORIZONTAL
6 p	p 818.83	10.66	23.22	33.88	46.00	-12.12	Peak	HORIZONTAL



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Transmitter Emission above 1GHz

Worse case m	Worse case mode:		GFSK		Test channel:		
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2390	55.97	-9.2	46.77	74	-27.23	Peak	н
2400	55.72	-9.39	46.33	74	-27.67	Peak	Н
4804	53.15	-4.33	48.82	74	-25.18	Peak	Н
7206	49.66	1.01	50.67	74	-23.33	Peak	Н
2390	53.9	-9.2	44.7	74	-29.3	Peak	V
2400	50.38	-9.39	40.99	74	-33.01	Peak	V
4804	54.69	-4.33	50.36	74	-23.64	Peak	V
7206	50.57	1.01	51.58	74	-22.42	Peak	V

Worse case mode:		GFSK		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
4882	51.62	-4.11	47.51	74	-26.49	peak	Н
7323	49.5	1.51	51.01	74	-22.99	peak	Н
4882	51.58	-4.11	47.47	74	-26.53	peak	V
7323	49.44	1.51	50.95	74	-23.05	peak	V

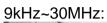
Worse case m	ode:	GFSK		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2483.5	54.71	-9.29	45.42	74	-28.58	Peak	Н
4960	52.94	-4.04	48.9	74	-25.1	Peak	Н
7440	49.85	1.57	51.42	74	-22.58	Peak	Н
2483.5	53.7	-9.29	44.41	74	-29.59	Peak	V
4960	50.65	-4.04	46.61	74	-27.39	Peak	V
7440	50.16	1.57	51.73	74	-22.27	Peak	V

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level =Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

6 Photographs - EUT Test Setup

6.1 Radiated Spurious Emission

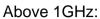


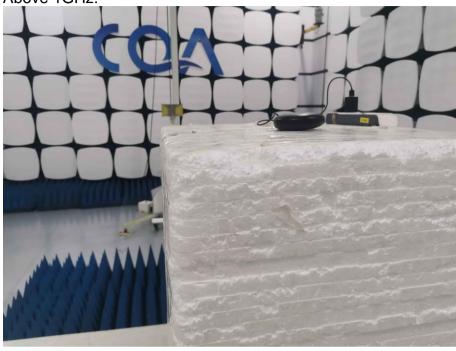


30MHz~1GHz:









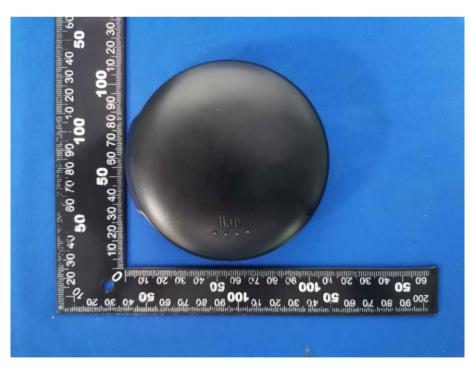
6.2 Conducted Emission





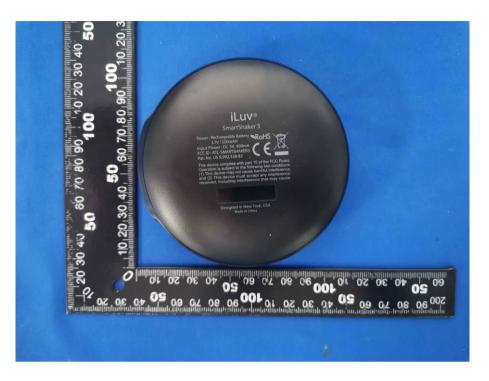
7 Photographs - EUT Constructional Details























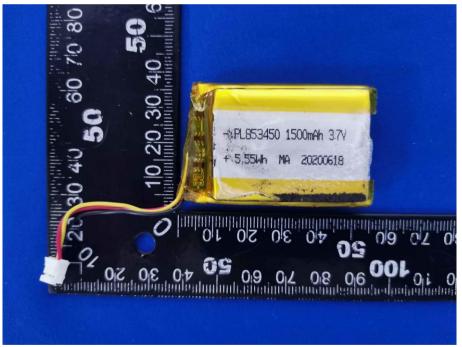




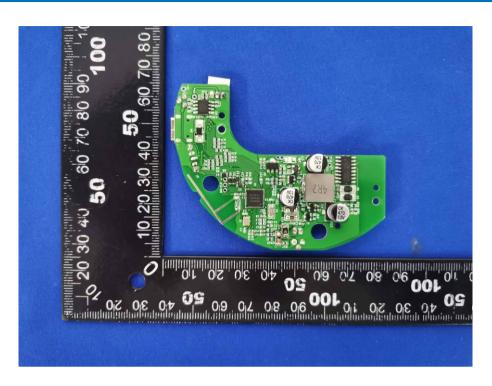


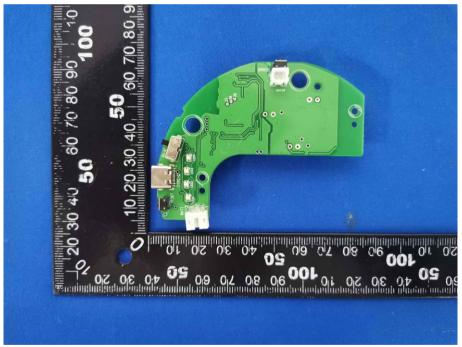
















The End